SEQUENCE LISTING

[0267] The instant application contains a "lengthy" Sequence Listing which has been submitted via four CD-R in lieu of a printed paper copy, and is hereby incorporated by reference in its entirety. Said CD-R, recorded on February 25, 2005, are labeled "CRF," "Copy 1," "Copy 2," and "Copy 3" respectively, and each contains only one identical 528 Kb file (89403834.APP).

Tables

Table 1. Identification Numbers

FP ID	SEQ.ID.NO. (N1)	SEQ.ID.NO. (P1)	SEQ.ID.NO. (N0)	Clone ID
HG1014903	SEQ.ID.NO.:1	SEQ.ID.NO.:188	SEQ.ID.NO.:375	PLT00014330A02.contig.a
HG1014904	SEQ.ID.NO.:2	SEQ.ID.NO.:189		PLT00014330A02.contig.b
HG1014905	SEQ.ID.NO.:3	SEQ.ID.NO.:190	SEQ.ID.NO.:376	CLN00736344
HG1014906	SEQ.ID.NO.:4	SEQ.ID.NO.:191		CLN00736344
HG1014907	SEQ.ID.NO.:5	SEQ.ID.NO.:192	SEQ.ID.NO.:377	PLT00014330A17.contig.a
HG1014908	SEQ.ID.NO.:6	SEQ.ID.NO.:193	SEQ.ID.NO.:378	PLT00014330A20.contig.a
HG1014909	SEQ.ID.NO.:7	SEQ.ID.NO.:194	SEQ.ID.NO.:379	PLT00014330B02.contig.a
HG1014910	SEQ.ID.NO.:8	SEQ.ID.NO.:195		PLT00014330B02.contig.b
HG1014911	SEQ.ID.NO.:9	SEQ.ID.NO.:196	SEQ.ID.NO.:380	PLT00014330B04.contig.a
HG1014912	SEQ.ID.NO.:10	SEQ.ID.NO.:197		PLT00014330B04.contig.b
HG1014913	SEQ.ID.NO.:11	SEQ.ID.NO.:198	SEQ.ID.NO.:381	PLT00014330B05.contig.a
HG1014914	SEQ.ID.NO.:12	SEQ.ID.NO.:199	SEQ.ID.NO.:382	PLT00014330B11.contig.a
HG1014915	SEQ.ID.NO.:13	SEQ.ID.NO.:200	SEQ.ID.NO.:383	PLT00014330B13.contig.a
HG1014916	SEQ.ID.NO.:14	SEQ.ID.NO.:201		PLT00014330B13.contig.b
HG1014917	SEQ.ID.NO.:15	SEQ.ID.NO.:202	SEQ.ID.NO.:384	CLN00736494
HG1014918	SEQ.ID.NO.:16	SEQ.ID.NO.:203		PLT00014330B18.contig.b
HG1014919	SEQ.ID.NO.:17	SEQ.ID.NO.:204	SEQ.ID.NO.:385	PLT00014330C06.contig.a
HG1014920	SEQ.ID.NO.:18	SEQ.ID.NO.:205		PLT00014330C06.contig.b
HG1014921	SEQ.ID.NO.:19	SEQ.ID.NO.:206	SEQ.ID.NO.:386	PLT00014330C12.contig.a
HG1014922	SEQ.ID.NO.:20	SEQ.ID.NO.:207	SEQ.ID.NO.:387	PLT00014330C14.contig.a
HG1014923	SEQ.ID.NO.:21	SEQ.ID.NO.:208	SEQ.ID.NO.:388	PLT00014330C18.contig.a
HG1014924	SEQ.ID.NO.:22	SEQ.ID.NO.:209		PLT00014330C18.contig.b
HG1014925	SEQ.ID.NO.:23	SEQ.ID.NO.:210	SEQ.ID.NO.:389	CLN00736483
HG1014926	SEQ.ID.NO.:24	SEQ.ID.NO.:211		CLN00736483
HG1014927	SEQ.ID.NO.:25	SEQ.ID.NO.:212	SEQ.ID.NO.:390	PLT00014330D05.contig.a
HG1014928	SEQ.ID.NO.:26	SEQ.ID.NO.:213		PLT00014330D05.contig.b
HG1014929	SEQ.ID.NO.:27	SEQ.ID.NO.:214	SEQ.ID.NO.:391	PLT00014330D07.contig.a
HG1014930	SEQ.ID.NO.:28	SEQ.ID.NO.:215	SEQ.ID.NO.:392	CLN00736320
HG1014931	SEQ.ID.NO.:29	SEQ.ID.NO.:216		CLN00736320
HG1014932	SEQ.ID.NO.:30	SEQ.ID.NO.:217	SEQ.ID.NO.:393	CLN00736408
HG1014933	SEQ.ID.NO.:31	SEQ.ID.NO.:218		PLT00014330D12.contig.b
HG1014934	SEQ.ID.NO.:32	SEQ.ID.NO.:219	SEQ.ID.NO.:394	PLT00014330D13.contig.a
HG1014935	SEQ.ID.NO.:33	SEQ.ID.NO.:220	SEQ.ID.NO.:395	PLT00014330D15.contig.a
HG1014936	SEQ.ID.NO.:34	SEQ.ID.NO.:221		PLT00014330D15.contig.b
HG1014937	SEQ.ID.NO.:35	SEQ.ID.NO.:222	SEQ.ID.NO.:396	PLT00014330D17.contig.a
HG1014938	SEQ.ID.NO.:36	SEQ.ID.NO.:223	SEQ.ID.NO.:397	PLT00014330E04.contig.a
HG1014939	SEQ.ID.NO.:37	SEQ.ID.NO.:224	SEQ.ID.NO.:398	PLT00014330E14.contig.a
HG1014940	SEQ.ID.NO.:38	SEQ.ID.NO.:225		PLT00014330E14.contig.b
HG1014941	SEQ.ID.NO.:39	SEQ.ID.NO.:226	SEQ.ID.NO.:399	PLT00014330E24.contig.a
HG1014942	SEQ.ID.NO.:40	SEQ.ID.NO.:227		PLT00014330E24.contig.b
HG1014943	SEQ.ID.NO.:41	SEQ.ID.NO.:228	SEQ.ID.NO.:400	PLT00014330F01.contig.a
HG1014944	SEQ.ID.NO.:42	SEQ.ID.NO.:229	SEQ.ID.NO.:401	PLT00014330F03.contig.a
HG1014945	SEQ.ID.NO.:43	SEQ.ID.NO.:230		PLT00014330F03.contig.b
HG1014946	SEQ.ID.NO.:44	SEQ.ID.NO.:231	SEQ.ID.NO.:402	CLN00736568
HG1014947	SEQ.ID.NO.:45	SEQ.ID.NO.:232		PLT00014330F04.contig.b
HG1014948	SEQ.ID.NO.:46	SEQ.ID.NO.:233	SEQ.ID.NO.:403	PLT00014330F05.contig.a
HG1014949	SEQ.ID.NO.:47	SEQ.ID.NO.:234	SEQ.ID.NO.:404	PLT00014330F13.contig.a
HG1014950	SEQ.ID.NO.:48	SEQ.ID.NO.:235	SEQ.ID.NO.:405	PLT00014330G21.contig.a
HG1014951	SEQ.ID.NO.:49	SEQ.ID.NO.:236		PLT00014330G21.contig.b
HG1014952	SEQ.ID.NO.:50	SEQ.ID.NO.:237		PLT00014330H05.contig.b
HG1014953	SEQ.ID.NO.:51	SEQ.ID.NO.:238	SEQ.ID.NO.:406	PLT00014330H06.contig.a

FP ID	SEQ.ID.NO. (N1)	SEQ.ID.NO. (P1)	SEQ.ID.NO. (N0)	Clone ID
HG1014954	SEQ.ID.NO.:52	SEQ.ID.NO.:239	SEQ.ID.NO.:407	CLN00736486
HG1014955	SEQ.ID.NO.:53	SEQ.ID.NO.:240		PLT00014330H12.contig.b
HG1014956	SEQ.ID.NO.:54	SEQ.ID.NO.:241	SEQ.ID.NO.:408	PLT00014330H14.contig.a
HG1014957	SEQ.ID.NO.:55	SEQ.ID.NO.:242		PLT00014330H14.contig.b
HG1014958	SEQ.ID.NO.:56	SEQ.ID.NO.:243	SEQ.ID.NO.:409	CLN00736439
HG1014959	SEQ.ID.NO.:57	SEQ.ID.NO.:244		PLT00014330H18.contig.b
HG1014960	SEQ.ID.NO.:58	SEQ.ID.NO.:245	SEQ.ID.NO.:410	PLT00014330I11.contig.a
HG1014961	SEQ.ID.NO.:59	SEQ.ID.NO.:246	SEQ.ID.NO.:411	PLT00014330I12.contig.a
HG1014962	SEQ.ID.NO.:60	SEQ.ID.NO.:247		PLT00014330I12.contig.b
HG1014963	SEQ.ID.NO.:61	SEQ.ID.NO.:248	SEQ.ID.NO.:412	PLT00014330I13.contig.a
HG1014964	SEQ.ID.NO.:62	SEQ.ID.NO.:249		PLT00014330I13.contig.b
HG1014965	SEQ.ID.NO.:63	SEQ.ID.NO.:250	SEQ.ID.NO.:413	PLT00014330J10.contig.a
HG1014966	SEQ.ID.NO.:64	SEQ.ID.NO.:251		PLT00014330J10.contig.b
HG1014967	SEQ.ID.NO.:65	SEQ.ID.NO.:252	SEQ.ID.NO.:414	PLT00014330J14.contig.a
HG1014968	SEQ.ID.NO.:66	SEQ.ID.NO.:253		PLT00014330J14.contig.b
HG1014969	SEQ.ID.NO.:67	SEQ.ID.NO.:254	SEQ.ID.NO.:415	PLT00014330J15.contig.a
HG1014970	SEQ.ID.NO.:68	SEQ.ID.NO.:255	SEQ.ID.NO.:416	PLT00014330J21.contig.a
HG1014971	SEQ.ID.NO.:69	SEQ.ID.NO.:256		PLT00014330J21.contig.b
HG1014972	SEQ.ID.NO.:70	SEQ.ID.NO.:257	SEQ.ID.NO.:417	PLT00014330K01.contig.a
HG1014973	SEQ.ID.NO.:71	SEQ.ID.NO.:258	SEQ.ID.NO.:418	PLT00014330K08.contig.a
HG1014974	SEQ.ID.NO.:72	SEQ.ID.NO.:259		PLT00014330K08.contig.b
HG1014975	SEQ.ID.NO.:73	SEQ.ID.NO.:260	SEQ.ID.NO.:419	CLN00736375
HG1014976	SEQ.ID.NO.:74	SEQ.ID.NO.:261		PLT00014330K09.contig.b
HG1014977	SEQ.ID.NO.:75	SEQ.ID.NO.:262	SEQ.ID.NO.:420	PLT00014330K15.contig.a
HG1014978	SEQ.ID.NO.:76	SEQ.ID.NO.:263		PLT00014330K15.contig.b
HG1014979	SEQ.ID.NO.:77	SEQ.ID.NO.:264	SEQ.ID.NO.:421	PLT00014330K24.contig.a
HG1014980	SEQ.ID.NO.:78	SEQ.ID.NO.:265	SEQ.ID.NO.:422	PLT00014330L01.contig.a
HG1015004	SEQ.ID.NO.:79	SEQ.ID.NO.:266	SEQ.ID.NO.:423	PLT00014330L24.contig.a
HG1014981	SEQ.ID.NO.:80	SEQ.ID.NO.:267	SEQ.ID.NO.:424	PLT00014330M02.contig.a
HG1014982	SEQ.ID.NO.:81	SEQ.ID.NO.:268		PLT00014330M02.contig.b
HG1014983	SEQ.ID.NO.:82	SEQ.ID.NO.:269	SEQ.ID.NO.:425	PLT00014330M08.contig.a
HG1014984	SEQ.ID.NO.:83	SEQ.ID.NO.:270		PLT00014330M08.contig.b
HG1014985	SEQ.ID.NO.:84	SEQ.ID.NO.:271	SEQ.ID.NO.:426	PLT00014330M15.contig.a
HG1014986	SEQ.ID.NO.:85	SEQ.ID.NO.:272	SEQ.ID.NO.:427	PLT00014330M17.contig.a
HG1014987	SEQ.ID.NO.:86	SEQ.ID.NO.:273		CLN00736332
HG1014988	SEQ.ID.NO.:87	SEQ.ID.NO.:274	SEQ.ID.NO.:428	PLT00014330N10.contig.a
HG1014989	SEQ.ID.NO.:88	SEQ.ID.NO.:275		PLT00014330N10.contig.b
HG1014990	SEQ.ID.NO.:89	SEQ.ID.NO.:276	SEQ.ID.NO.:429	PLT00014330N12.contig.a
HG1014991	SEQ.ID.NO.:90	SEQ.ID.NO.:277		PLT00014330N12.contig.b
HG1014992	SEQ.ID.NO.:91	SEQ.ID.NO.:278	SEQ.ID.NO.:430	CLN00736512
HG1014993	SEQ.ID.NO.:92	SEQ.ID.NO.:279		CLN00736512
HG1014994	SEQ.ID.NO.:93	SEQ.ID.NO.:280	SEQ.ID.NO.:431	PLT00014330N22.contig.a
HG1014995	SEQ.ID.NO.:94	SEQ.ID.NO.:281		PLT00014330N22.contig.b
HG1014996	SEQ.ID.NO.:95	SEQ.ID.NO.:282	SEQ.ID.NO.:432	CLN00736478
HG1014997	SEQ.ID.NO.:96	SEQ.ID.NO.:283	SEQ.ID.NO.:433	PLT00014330O07.contig.a
HG1014998	SEQ.ID.NO.:97	SEQ.ID.NO.:284		PLT00014330O07.contig.b
HG1015005	SEQ.ID.NO.:98	SEQ.ID.NO.:285	SEQ.ID.NO.:434	PLT00014330O18.contig.a
HG1015006	SEQ.ID.NO.:99	SEQ.ID.NO.:286		PLT00014330O18.contig.b
HG1014999	SEQ.ID.NO.:100	SEQ.ID.NO.:287	SEQ.ID.NO.:435	PLT00014330P07.contig.a
HG1015000	SEQ.ID.NO.:101	SEQ.ID.NO.:288		PLT00014330P07.contig.b
HG1015001	SEQ.ID.NO.:102	SEQ.ID.NO.:289	SEQ.ID.NO.:436	PLT00014330P09.contig.a
HG1015002	SEQ.ID.NO.:103	SEQ.ID.NO.:290		PLT00014330P09.contig.b
HG1015003	SEQ.ID.NO.:104	SEQ.ID.NO.:291	SEQ.ID.NO.:437	PLT00014330P15.contig.a
HG1015007	SEQ.ID.NO.:105	SEQ.ID.NO.:292	SEQ.ID.NO.:438	CLN00736321

FP ID	SEQ.ID.NO. (N1)	SEQ.ID.NO. (P1)	SEQ.ID.NO. (N0)	Clone ID
HG1015008	SEQ.ID.NO.:106	SEQ.ID.NO.:293		PLT00014333A03.contig.b
HG1015009	SEQ.ID.NO.:107	SEQ.ID.NO.:294	SEQ.ID.NO.:439	PLT00014333A06.contig.a
HG1015010	SEQ.ID.NO.:108	SEQ.ID.NO.:295		PLT00014333A06.contig.b
HG1015011	SEQ.ID.NO.:109	SEQ.ID.NO.:296	SEQ.ID.NO.:440	PLT00014333A08.contig.a
HG1015012	SEQ.ID.NO.:110	SEQ.ID.NO.:297	SEQ.ID.NO.:441	PLT00014333A15.contig.a
HG1015013	SEQ.ID.NO.:111	SEQ.ID.NO.:298		CLN00736625
HG1015014	SEQ.ID.NO.:112	SEQ.ID.NO.:299	SEQ.ID.NO.:442	PLT00014333A16.contig.a
HG1015015	SEQ.ID.NO.:113	SEQ.ID.NO.:300		PLT00014333A16.contig.b
HG1015016	SEQ.ID.NO.:114	SEQ.ID.NO.:301	SEQ.ID.NO.:443	PLT00014333B03.contig.a
HG1015017	SEQ.ID.NO.:115	SEQ.ID.NO.:302		PLT00014333B03.contig.b
HG1015018	SEQ.ID.NO.:116	SEQ.ID.NO.:303	SEQ.ID.NO.:444	PLT00014333B05.contig.a
HG1015019	SEQ.ID.NO.:117	SEQ.ID.NO.:304		PLT00014333B05.contig.b
HG1015020	SEQ.ID.NO.:118	SEQ.ID.NO.:305	SEQ.ID.NO.:445	PLT00014333B15.contig.a
HG1015021	SEQ.ID.NO.:119	SEQ.ID.NO.:306	SEQ.ID.NO.:446	PLT00014333B17.contig.a
HG1015022	SEQ.ID.NO.:120	SEQ.ID.NO.:307		CLN00736440
HG1015023	SEQ.ID.NO.:121	SEQ.ID.NO.:308	SEQ.ID.NO.:447	PLT00014333C02.contig.a
HG1015024	SEQ.ID.NO.:122	SEQ.ID.NO.:309		PLT00014333C02.contig.b
HG1015025	SEQ.ID.NO.:123	SEQ.ID.NO.:310	SEQ.ID.NO.:448	PLT00014333C10.contig.a
HG1015026	SEQ.ID.NO.:124	SEQ.ID.NO.:311		PLT00014333C10.contig.b
HG1015027	SEQ.ID.NO.:125	SEQ.ID.NO.:312	SEQ.ID.NO.:449	PLT00014333C16.contig.a
HG1015028	SEQ.ID.NO.:126	SEQ.ID.NO.:313		PLT00014333C16.contig.b
HG1015029	SEQ.ID.NO.:127	SEQ.ID.NO.:314	SEQ.ID.NO.:450	PLT00014333C21.contig.a
HG1015030	SEQ.ID.NO.:128	SEQ.ID.NO.:315		PLT00014333C21.contig.b
HG1015031	SEQ.ID.NO.:129	SEQ.ID.NO.:316	SEQ.ID.NO.:451	PLT00014333C24.contig.a
HG1015032	SEQ.ID.NO.:130	SEQ.ID.NO.:317		PLT00014333C24.contig.b
HG1015033	SEQ.ID.NO.:131	SEQ.ID.NO.:318	SEQ.ID.NO.:452	PLT00014333D07.contig.a
HG1015034	SEQ.ID.NO.:132	SEQ.ID.NO.:319		PLT00014333D07.contig.b
HG1015035	SEQ.ID.NO.:133	SEQ.ID.NO.:320	SEQ.ID.NO.:453	PLT00014333D15.contig.a
HG1015036	SEQ.ID.NO.:134	SEQ.ID.NO.:321		CLN00736385
HG1015037	SEQ.ID.NO.:135	SEQ.ID.NO.:322	SEQ.ID.NO.:454	CLN00736561
HG1015038	SEQ.ID.NO.:136	SEQ.ID.NO.:323		CLN00736561
HG1015039	SEQ.ID.NO.:137	SEQ.ID.NO.:324	SEQ.ID.NO.:455	PLT00014333E04.contig.a
HG1015040	SEQ.ID.NO.:138	SEQ.ID.NO.:325	SEQ.ID.NO.:456	PLT00014333E05.contig.a
HG1015041	SEQ.ID.NO.:139	SEQ.ID.NO.:326		PLT00014333E05.contig.b
HG1015042	SEQ.ID.NO.:140	SEQ.ID.NO.:327	SEQ.ID.NO.:457	PLT00014333E14.contig.a
HG1015043	SEQ.ID.NO.:141	SEQ.ID.NO.:328		PLT00014333E14.contig.b
HG1015086	SEQ.ID.NO.:142	SEQ.ID.NO.:329	SEQ.ID.NO.:458	PLT00014333E15.contig.a
HG1015087	SEQ.ID.NO.:143	SEQ.ID.NO.:330		PLT00014333E15.contig.b
HG1015044	SEQ.ID.NO.:144	SEQ.ID.NO.:331	SEQ.ID.NO.:459	PLT00014333E24.contig.b
HG1015045	SEQ.ID.NO.:145	SEQ.ID.NO.:332	SEQ.ID.NO.:460	PLT00014333F07.contig.a
HG1015046	SEQ.ID.NO.:146	SEQ.ID.NO.:333	SEQ.ID.NO.:461	PLT00014333G01.contig.a
HG1015047	SEQ.ID.NO.:147	SEQ.ID.NO.:334	SEQ.ID.NO.:462	PLT00014333G02.contig.a
HG1015048	SEQ.ID.NO.:148	SEQ.ID.NO.:335		PLT00014333G02.contig.b
HG1015088	SEQ.ID.NO.:149	SEQ.ID.NO.:336	SEQ.ID.NO.:463	PLT00014333G09.contig.a
HG1015089	SEQ.ID.NO.:150	SEQ.ID.NO.:337		PLT00014333G09.contig.b
HG1015049	SEQ.ID.NO.:151	SEQ.ID.NO.:338	SEQ.ID.NO.:464	PLT00014333H11.contig.a
HG1015050	SEQ.ID.NO.:152	SEQ.ID.NO.:339	SEQ.ID.NO.:465	PLT00014333H15.contig.a
HG1015051	SEQ.ID.NO.:153	SEQ.ID.NO.:340		PLT00014333H15.contig.b
HG1015052	SEQ.ID.NO.:154	SEQ.ID.NO.:341	SEQ.ID.NO.:466	PLT00014333I18.contig.a
HG1015053	SEQ.ID.NO.:155	SEQ.ID.NO.:342		PLT00014333I18.contig.b
HG1015054	SEQ.ID.NO.:156	SEQ.ID.NO.:343	SEQ.ID.NO.:467	PLT00014333I22.contig.a
HG1015055	SEQ.ID.NO.:157	SEQ.ID.NO.:344		PLT00014333I22.contig.b
HG1015056	SEQ.ID.NO.:158	SEQ.ID.NO.:345	SEQ.ID.NO.:468	PLT00014333J01.contig.a
HG1015057	SEQ.ID.NO.:159	SEQ.ID.NO.:346		PLT00014333J01.contig.b

FP ID	SEQ.ID.NO. (N1)	SEQ.ID.NO. (P1)	SEQ.ID.NO. (N0)	Clone ID
HG1015058	SEQ.ID.NO.:160	SEQ.ID.NO.:347	SEQ.ID.NO.:469	PLT00014333J13.contig.a
HG1015059	SEQ.ID.NO.:161	SEQ.ID.NO.:348		PLT00014333J13.contig.b
HG1015060	SEQ.ID.NO.:162	SEQ.ID.NO.:349	SEQ.ID.NO.:470	PLT00014333J15.contig.a
HG1015061	SEQ.ID.NO.:163	SEQ.ID.NO.:350		PLT00014333J15.contig.b
HG1015062	SEQ.ID.NO.:164	SEQ.ID.NO.:351	SEQ.ID.NO.:471	PLT00014333J17.contig.a
HG1015063	SEQ.ID.NO.:165	SEQ.ID.NO.:352	SEQ.ID.NO.:472	PLT00014333J23.contig.a
HG1015064	SEQ.ID.NO.:166	SEQ.ID.NO.:353		PLT00014333J23.contig.b
HG1015065	SEQ.ID.NO.:167	SEQ.ID.NO.:354	SEQ.ID.NO.:473	PLT00014333K04.contig.a
HG1015066	SEQ.ID.NO.:168	SEQ.ID.NO.:355		PLT00014333K04.contig.b
HG1015067	SEQ.ID.NO.:169	SEQ.ID.NO.:356	SEQ.ID.NO.:474	CLN00625950 CLN00625952 CLN00625956 CLN00625984 CLN00625986 CLN00626567 CLN00626569 CLN00626571 CLN00626573
HG1015068	SEQ.ID.NO.:170	SEQ.ID.NO.:357		CLN00625950 CLN00625952 CLN00625956 CLN00625984 CLN00625986 CLN00626567 CLN00626569 CLN00626571 CLN00626573
HG1015069	SEQ.ID.NO.:171	SEQ.ID.NO.:358	SEQ.ID.NO.:475	PLT00014333L13.contig.b
HG1015070	SEQ.ID.NO.:172	SEQ.ID.NO.:359	SEQ.ID.NO.:476	PLT00014333M01.contig.a
HG1015071	SEQ.ID.NO.:173	SEQ.ID.NO.:360		PLT00014333M01.contig.b
HG1015072	SEQ.ID.NO.:174	SEQ.ID.NO.:361	SEQ.ID.NO.:477	PLT00014333M02.contig.a
HG1015073	SEQ.ID.NO.:175	SEQ.ID.NO.:362		PLT00014333M02.contig.b
HG1015074	SEQ.ID.NO.:176	SEQ.ID.NO.:363	SEQ.ID.NO.:478	CLN00736352
HG1015075	SEQ.ID.NO.:177	SEQ.ID.NO.:364		CLN00736352
HG1015076	SEQ.ID.NO.:178	SEQ.ID.NO.:365	SEQ.ID.NO.:479	PLT00014333M15.contig.a
HG1015077	SEQ.ID.NO.:179	SEQ.ID.NO.:366		PLT00014333M15.contig.b
HG1015078	SEQ.ID.NO.:180	SEQ.ID.NO.:367	SEQ.ID.NO.:480	PLT00014333N05.contig.a
HG1015079	SEQ.ID.NO.:181	SEQ.ID.NO.:368		PLT00014333N05.contig.b
HG1015080	SEQ.ID.NO.:182	SEQ.ID.NO.:369	SEQ.ID.NO.:481	PLT00014333N11.contig.a
HG1015081	SEQ.ID.NO.:183	SEQ.ID.NO.:370		PLT00014333N11.contig.b
HG1015082	SEQ.ID.NO.:184	SEQ.ID.NO.:371	SEQ.ID.NO.:482	PLT00014333O03.contig.a
HG1015083	SEQ.ID.NO.:185	SEQ.ID.NO.:372		PLT00014333O03.contig.b
HG1015084	SEQ.ID.NO.:186	SEQ.ID.NO.:373	SEQ.ID.NO.:483	PLT00014333O10.contig.a
HG1015085	SEQ.ID.NO.:187	SEQ.ID.NO.:374	SEQ.ID.NO.:484	PLT00014333O17.contig.a

Table 2. Structural Characteristics

FP ID	Clone ID	Pred Prot Len	Tree-vote	Mature Protein Coords	Altern Mature Protein Coords	Signal Peptide Coords	TM	TM Coords	Non-TM Coords	Pfam
HG1014903	PLT00014330A02.contig.a	89	0	(1-89)			0		(1-89)	no_pfam
HG1014904	PLT00014330A02.contig.b	87	0	(1-87)			0		(1-87)	no_pfam
HG1014905	PLT00014330A08.contig.a	82	0.55	(27-82)		(1-26)	1	(15-37)	(1-14)(38-82)	no_pfam
HG1014906	PLT00014330A08.contig.b	61	0.62	(24-61)		(6-23)	2	(5-27)(31-53)	(1-4)(28-30)(54-61)	no_pfam
HG1014907	PLT00014330A17.contig.a	66	0.11	(1-66)	(39-66)	(11-38)	0		(1-66)	no_pfam
HG1014908	PLT00014330A20.contig.a	54	0.25	(33-54)		(18-32)	0		(1-54)	no_pfam
HG1014909	PLT00014330B02.contig.a	84	0	(1-84)			0		(1-84)	no_pfam
HG1014910	PLT00014330B02.contig.b	73	0.07	(22-73)	(41-73)	(16-40)	0		(1-73)	no_pfam
HG1014911	PLT00014330B04.contig.a	160	0	(1-160)			0		(1-160)	no_pfam
HG1014912	PLT00014330B04.contig.b	108	0.05	(1-108)	(25-108)	(11-24)	0		(1-108)	no_pfam
HG1014913	PLT00014330B05.contig.a	79	0.02	(1-79)			0		(1-79)	no_pfam
HG1014914	PLT00014330B11.contig.a	68	0.23	(15-68)	(26-68)	(1-25)	0		(1-68)	no_pfam
HG1014915	PLT00014330B13.contig.a	55	0.05	(1-55)	(38-55)	(8-37)	0		(1-55)	no_pfam
HG1014916	PLT00014330B13.contig.b	53	0.01	(1-53)	(20-53)	(1-19)	0		(1-53)	no_pfam
HG1014917	PLT00014330B18.contig.a	74	0.7	(22-74)		(2-21)	0		(1-74)	no_pfam
HG1014918	PLT00014330B18.contig.b	53	0.24	(28-53)	(37-53)	(14-36)	0		(1-53)	no_pfam
HG1014919	PLT00014330C06.contig.a	101	0.53	(20-101)	(44-101)	(19-43)	0		(1-101)	no_pfam
HG1014920	PLT00014330C06.contig.b	65	0.01	(1-65)	(18-65)	(1-17)	0		(1-65)	no_pfam
HG1014921	PLT00014330C12.contig.a	68	0.01	(1-68)	(23-68)	(1-22)	0		(1-68)	no_pfam
HG1014922	PLT00014330C14.contig.a	66	0.02	(1-66)			0		(1-66)	no_pfam
HG1014923	PLT00014330C18.contig.a	64	0	(1-64)	(20-64)	(1-19)	0		(1-64)	no_pfam
HG1014924	PLT00014330C18.contig.b	63	0	(1-63)			0		(1-63)	no_pfam
HG1014925	PLT00014330D03.contig.a	132	0.81	(20-132)		(1-19)	0		(1-132)	no_pfam
HG1014926	PLT00014330D03.contig.b	74	0.43	(37-74)		(15-36)	2	(12-31)(46-68)	(1-11)(32-45)(69-74)	no_pfam
HG1014927	PLT00014330D05.contig.a	60	0.07	(1-60)	(32-60)	(16-31)	0		(1-60)	no_pfam
HG1014928	PLT00014330D05.contig.b	54	0.39	(1-54)	(27-54)	(1-26)	0		(1-54)	no_pfam

FP ID	Clone ID	Pred Prot Len	Tree-vote	Mature Protein Coords	Altern Mature Protein Coords	Signal Peptide Coords	TM	TM Coords	Non-TM Coords	Pfam
HG1014929	PLT00014330D07.contig.a	85	0.03	(4-85)	(1-85)		0		(1-85)	no_pfam
HG1014930	PLT00014330D10.contig.a	79	0.61	(29-79)	(30-79)	(6-29)	0		(1-79)	no_pfam
HG1014931	PLT00014330D10.contig.b	73	0.87	(22-73)	(20-73)	(1-19)	0		(1-73)	no_pfam
HG1014932	PLT00014330D12.contig.a	116	0.01	(1-116)			1	(21-43)	(1-20)(44-116)	no_pfam
HG1014933	PLT00014330D12.contig.b	54	0.24	(24-54)		(1-23)	0		(1-54)	no_pfam
HG1014934	PLT00014330D13.contig.a	60	0	(1-60)			0		(1-60)	no_pfam
HG1014935	PLT00014330D15.contig.a	92	0.01	(1-92)	(21-92)	(6-20)	0		(1-92)	no_pfam
HG1014936	PLT00014330D15.contig.b	89	0.4	(36-89)	(46-89)	(16-45)	1	(12-34)	(1-11)(35-89)	no_pfam
HG1014937	PLT00014330D17.contig.a	96	0.26	(30-96)	(27-96)	(10-26)	0		(1-96)	no_pfam
HG1014938	PLT00014330E04.contig.a	54	0.02	(1-54)			0		(1-54)	no_pfam
HG1014939	PLT00014330E14.contig.a	68	0.02	(1-68)	(19-68)	(1-18)	0		(1-68)	no_pfam
HG1014940	PLT00014330E14.contig.b	61	0	(1-61)	(27-61)	(9-26)	0		(1-61)	no_pfam
HG1014941	PLT00014330E24.contig.a	112	0.01	(1-112)			0		(1-112)	no_pfam
HG1014942	PLT00014330E24.contig.b	62	0.16	(1-62)	(35-62)	(17-34)	1	(15-34)	(1-14)(35-62)	no_pfam
HG1014943	PLT00014330F01.contig.a	77	0	(1-77)			1	(28-45)	(1-27)(46-77)	no_pfam
HG1014944	PLT00014330F03.contig.a	105	0	(1-105)			0		(1-105)	no_pfam
HG1014945	PLT00014330F03.contig.b	71	0.01	(27-71)	(1-71)		0		(1-71)	no_pfam
HG1014946	PLT00014330F04.contig.a	117	0.9	(18-117)	(20-117)	(1-19)	0		(1-117)	no_pfam
HG1014947	PLT00014330F04.contig.b	104	0.09	(25-104)		(1-24)	0		(1-104)	no_pfam
HG1014948	PLT00014330F05.contig.a	50	0.01	(1-50)	(16-50)	(1-15)	0		(1-50)	no_pfam
HG1014949	PLT00014330F13.contig.a	53	0.26	(28-53)		(1-27)	0		(1-53)	no_pfam
HG1014950	PLT00014330G21.contig.a	146	0.16	(28-146)	(29-146)	(6-28)	0		(1-146)	no_pfam
HG1014951	PLT00014330G21.contig.b	53	0.05	(1-53)			1	(20-42)	(1-19)(43-53)	no_pfam
HG1014952	PLT00014330H05.contig.b	97	0.01	(1-97)	(25-97)	(1-24)	0		(1-97)	rvt
HG1014953	PLT00014330H06.contig.a	50	0.16	(1-50)	(32-50)	(16-31)	0		(1-50)	no_pfam
HG1014954	PLT00014330H12.contig.a	86	0.65	(19-86)		(1-18)	0		(1-86)	no_pfam

FP ID	Clone ID	Pred Prot Len	Tree-vote	Mature Protein Coords	Altern Mature Protein Coords	Signal Peptide Coords	TM	TM Coords	Non-TM Coords	Pfam
HG1014955	PLT00014330H12.contig.b	76	0.03	(1-76)	(19-76)	(1-18)	0		(1-76)	no_pfam
HG1014956	PLT00014330H14.contig.a	68	0.2	(38-68)	(17-68)	(1-16)	0		(1-68)	no_pfam
HG1014957	PLT00014330H14.contig.b	66	0.05	(29-66)	(1-66)		1	(43-62)	(1-42)(63-66)	no_pfam
HG1014958	PLT00014330H18.contig.a	95	0.94	(21-95)	(19-95)	(1-18)	0		(1-95)	no_pfam
HG1014959	PLT00014330H18.contig.b	77	0.01	(38-77)	(1-77)		0		(1-77)	no_pfam
HG1014960	PLT00014330I11.contig.a	62	0.05	(1-62)			1	(31-53)	(1-30)(54-62)	no_pfam
HG1014961	PLT00014330I12.contig.a	88	0.3	(8-88)	(19-88)	(1-18)	0		(1-88)	no_pfam
HG1014962	PLT00014330I12.contig.b	66	0.51	(8-66)	(16-66)	(1-15)	2	(4-26)(43-65)	(1-3)(27-42)(66-66)	no_pfam
HG1014963	PLT00014330I13.contig.a	103	0.04	(1-103)	(41-103)	(17-40)	0		(1-103)	no_pfam
HG1014964	PLT00014330I13.contig.b	84	0.02	(1-84)	(18-84)	(5-17)	0		(1-84)	no_pfam
HG1014965	PLT00014330J10.contig.a	130	0.05	(16-130)	(1-130)		0		(1-130)	no_pfam
HG1014966	PLT00014330J10.contig.b	103	0	(1-103)			0		(1-103)	no_pfam
HG1014967	PLT00014330J14.contig.a	79	0.02	(32-79)	(1-79)		0		(1-79)	no_pfam
HG1014968	PLT00014330J14.contig.b	57	0.03	(1-57)	(23-57)	(1-22)	0		(1-57)	no_pfam
HG1014969	PLT00014330J15.contig.a	68	0.01	(1-68)			0		(1-68)	no_pfam
HG1014970	PLT00014330J21.contig.a	80	0.1	(1-80)	(25-80)	(10-24)	0		(1-80)	no_pfam
HG1014971	PLT00014330J21.contig.b	68	0.08	(1-68)	(22-68)	(1-21)	0		(1-68)	no_pfam
HG1014972	PLT00014330K01.contig.a	73	0	(1-73)			0		(1-73)	no_pfam
HG1014973	PLT00014330K08.contig.a	99	0.16	(1-99)	(26-99)	(1-25)	1	(73-95)	(1-72)(96-99)	no_pfam
HG1014974	PLT00014330K08.contig.b	50	0.26	(1-50)	(18-50)	(1-17)	2	(5-27)(32-49)	(1-4)(28-31)(50-50)	no_pfam
HG1014975	PLT00014330K09.contig.a	100	0.09	(20-100)		(2-19)	0		(1-100)	no_pfam
HG1014976	PLT00014330K09.contig.b	60	0	(1-60)	(23-60)	(11-22)	0		(1-60)	no_pfam
HG1014977	PLT00014330K15.contig.a	72	0.01	(1-72)	(26-72)	(2-25)	0		(1-72)	no_pfam
HG1014978	PLT00014330K15.contig.b	61	0	(1-61)	(33-61)	(9-32)	0		(1-61)	no_pfam
HG1014979	PLT00014330K24.contig.a	51	0.17	(37-51)	(29-51)	(8-28)	1	(13-35)	(1-12)(36-51)	no_pfam
HG1014980	PLT00014330L01.contig.a	112	0.13	(37-112)	(19-112)	(1-18)	0		(1-112)	no_pfam
HG1014981	PLT00014330M02.contig.a	106	0.01	(1-106)			0		(1-106)	no_pfam
HG1014982	PLT00014330M02.contig.b	88	0.27	(1-88)	(19-88)	(1-18)	0		(1-88)	no_pfam
HG1014983	PLT00014330M08.contig.a	72	0.46	(32-72)		(18-31)	1	(45-67)	(1-44)(68-72)	no_pfam

FP ID	Clone ID	Pred Prot Len	Tree-vote	Mature Protein Coords	Altern Mature Protein Coords	Signal Peptide Coords	TM	TM Coords	Non-TM Coords	Pfam
HG1014984	PLT00014330M08.contig.b	52	0.29	(31-52)		(17-30)	1	(20-42)	(1-19)(43-52)	no_pfam
HG1014985	PLT00014330M15.contig.a	53	0.07	(1-53)	(53-53)	(19-52)	0		(1-53)	no_pfam
HG1014986	PLT00014330M17.contig.a	110	0.13	(1-110)	(21-110)	(1-20)	0		(1-110)	no_pfam
HG1014987	PLT00014330M17.contig.b	82	0.45	(29-82)	(30-82)	(16-29)	0		(1-82)	no_pfam
HG1014988	PLT00014330N10.contig.a	75	0.15	(38-75)		(18-37)	1	(20-42)	(1-19)(43-75)	no_pfam
HG1014989	PLT00014330N10.contig.b	68	0	(1-68)	(22-68)	(1-21)	0		(1-68)	no_pfam
HG1014990	PLT00014330N12.contig.a	56	0	(1-56)	(33-56)	(18-32)	0		(1-56)	no_pfam
HG1014991	PLT00014330N12.contig.b	56	0	(1-56)	(20-56)	(1-19)	0		(1-56)	no_pfam
HG1014992	PLT00014330N13.contig.a	83	0.87	(23-83)	(20-83)	(1-19)	1	(4-26)	(1-3)(27-83)	no_pfam
HG1014993	PLT00014330N13.contig.b	55	0.29	(28-55)	(29-55)	(14-28)	1	(10-32)	(1-9)(33-55)	no_pfam
HG1014994	PLT00014330N22.contig.a	74	0.02	(1-74)	(33-74)	(19-32)	0		(1-74)	no_pfam
HG1014995	PLT00014330N22.contig.b	57	0.12	(1-57)	(20-57)	(1-19)	0		(1-57)	no_pfam
HG1014996	PLT00014330O03.contig.a	70	0.32	(1-70)	(19-70)	(5-18)	1	(7-29)	(1-6)(30-70)	no_pfam
HG1014997	PLT00014330O07.contig.a	78	0	(1-78)			0		(1-78)	no_pfam
HG1014998	PLT00014330O07.contig.b	73	0.06	(1-73)	(33-73)	(19-32)	0		(1-73)	no_pfam
HG1014999	PLT00014330P07.contig.a	85	0.03	(1-85)	(33-85)	(1-32)	0		(1-85)	no_pfam
HG1015000	PLT00014330P07.contig.b	61	0.05	(34-61)	(32-61)	(1-31)	0		(1-61)	no_pfam
HG1015001	PLT00014330P09.contig.a	101	0.17	(1-101)	(33-101)	(13-32)	0		(1-101)	no_pfam
HG1015002	PLT00014330P09.contig.b	98	0.01	(1-98)			0		(1-98)	no_pfam
HG1015003	PLT00014330P15.contig.a	61	0.02	(1-61)			0		(1-61)	no_pfam
HG1015004	PLT00014330L24.contig.a	50	0.17	(38-50)	(34-50)	(1-33)	0		(1-50)	no_pfam
HG1015005	PLT00014330O18.contig.a	82	0	(1-82)			0		(1-82)	no_pfam
HG1015006	PLT00014330O18.contig.b	66	0	(1-66)			0		(1-66)	no_pfam
HG1015007	PLT00014333A03.contig.a	83	0.08	(1-83)	(39-83)	(19-38)	1	(15-37)	(1-14)(38-83)	no_pfam
HG1015008	PLT00014333A03.contig.b	64	0.1	(30-64)	(29-64)	(11-28)	0		(1-64)	no_pfam

FP ID	Clone ID	Pred Prot Len	Tree-vote	Mature Protein Coords	Altern Mature Protein Coords	Signal Peptide Coords	TM	TM Coords	Non-TM Coords	Pfam
HG1015009	PLT00014333A06.contig.a	153	0.01	(1-153)			0		(1-153)	no_pfam
HG1015010	PLT00014333A06.contig.b	66	0.13	(35-66)	(33-66)	(18-32)	0		(1-66)	no_pfam
HG1015011	PLT00014333A08.contig.a	66	0.26	(1-66)	(22-66)	(1-21)	0		(1-66)	no_pfam
HG1015012	PLT00014333A15.contig.a	136	0.03	(1-136)			0		(1-136)	no_pfam
HG1015013	PLT00014333A15.contig.b	67	0.8	(38-67)	(35-67)	(17-34)	0		(1-67)	no_pfam
HG1015014	PLT00014333A16.contig.a	51	0.02	(1-51)			0		(1-51)	no_pfam
HG1015015	PLT00014333A16.contig.b	50	0.46	(25-50)	(41-50)	(16-40)	0		(1-50)	no_pfam
HG1015016	PLT00014333B03.contig.a	63	0.02	(1-63)			0		(1-63)	no_pfam
HG1015017	PLT00014333B03.contig.b	50	0	(1-50)	(15-50)	(1-14)	0		(1-50)	no_pfam
HG1015018	PLT00014333B05.contig.a	55	0.05	(1-55)			1	(29-51)	(1-28)(52-55)	no_pfam
HG1015019	PLT00014333B05.contig.b	53	0.49	(1-53)	(18-53)	(1-17)	0		(1-53)	no_pfam
HG1015020	PLT00014333B15.contig.a	53	0	(1-53)	(28-53)	(3-27)	0		(1-53)	no_pfam
HG1015021	PLT00014333B17.contig.a	76	0.35	(16-76)		(1-15)	0		(1-76)	no_pfam
HG1015022	PLT00014333B17.contig.b	65	0.01	(1-65)			1	(42-64)	(1-41)(65-65)	no_pfam
HG1015023	PLT00014333C02.contig.a	77	0.03	(1-77)			0		(1-77)	no_pfam
HG1015024	PLT00014333C02.contig.b	51	0.77	(22-51)		(8-21)	1	(12-34)	(1-11)(35-51)	no_pfam
HG1015025	PLT00014333C10.contig.a	99	0.33	(1-99)	(50-99)	(19-49)	0		(1-99)	no_pfam
HG1015026	PLT00014333C10.contig.b	92	0.21	(18-92)	(20-92)	(1-19)	0		(1-92)	no_pfam
HG1015027	PLT00014333C16.contig.a	363	0.04	(1-363)	(15-363)	(1-14)	0		(1-363)	no_pfam
HG1015028	PLT00014333C16.contig.b	86	0.24	(1-86)	(27-86)	(1-26)	0		(1-86)	no_pfam
HG1015029	PLT00014333C21.contig.a	82	0.49	(1-82)	(49-82)	(19-48)	0		(1-82)	no_pfam
HG1015030	PLT00014333C21.contig.b	77	0.03	(1-77)	(28-77)	(9-27)	0		(1-77)	no_pfam
HG1015031	PLT00014333C24.contig.a	94	0.11	(1-94)	(30-94)	(15-29)	1	(10-32)	(1-9)(33-94)	no_pfam
HG1015032	PLT00014333C24.contig.b	88	0	(1-88)			2	(34-56)(61-78)	(1-33)(57-60)(79-88)	no_pfam
HG1015033	PLT00014333D07.contig.a	73	0.02	(1-73)	(21-73)	(1-20)	0		(1-73)	no_pfam

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HG1015034	PLT00014333D07.contig.b	67	0.23	(1-67)	(32-67)	(1-31)	0		(1-67)	no_pfam
HG1015035	PLT00014333D15.contig.a	64	0.11	(32-64)	(31-64)	(16-30)	0		(1-64)	no_pfam
HG1015036	PLT00014333D15.contig.b	62	0.29	(34-62)	(31-62)	(5-30)	2	(13-32)(42-61)	(1-12)(33-41)(62-62)	no_pfam
HG1015037	PLT00014333E01.contig.a	73	0	(36-73)	(1-73)		1	(26-48)	(1-25)(49-73)	no_pfam
HG1015038	PLT00014333E01.contig.b	67	0.51	(35-67)	(26-67)	(8-25)	1	(10-32)	(1-9)(33-67)	no_pfam
HG1015039	PLT00014333E04.contig.a	53	0.01	(1-53)			0		(1-53)	no_pfam
HG1015040	PLT00014333E05.contig.a	66	0.01	(1-66)	(25-66)	(8-24)	0		(1-66)	no_pfam
HG1015041	PLT00014333E05.contig.b	57	0.03	(1-57)	(45-57)	(1-44)	0		(1-57)	no_pfam
HG1015042	PLT00014333E14.contig.a	108	0.01	(1-108)			0		(1-108)	no_pfam
HG1015043	PLT00014333E14.contig.b	61	0.24	(26-61)	(29-61)	(14-28)	0		(1-61)	no_pfam
HG1015044	PLT00014333E24.contig.b	91	0.01	(1-91)	(32-91)	(18-31)	0		(1-91)	Trans-posase 1
HG1015045	PLT00014333F07.contig.a	52	0	(1-52)	(17-52)	(1-16)	0		(1-52)	no_pfam
HG1015046	PLT00014333G01.contig.a	69	0.24	(1-69)	(33-69)	(14-32)	0		(1-69)	no_pfam
HG1015047	PLT00014333G02.contig.a	77	0.03	(19-77)	(1-77)		0		(1-77)	no_pfam
HG1015048	PLT00014333G02.contig.b	57	0	(1-57)			0		(1-57)	no_pfam
HG1015049	PLT00014333H11.contig.a	95	0.03	(1-95)	(36-95)	(12-35)	0		(1-95)	no_pfam
HG1015050	PLT00014333H15.contig.a	90	0.23	(35-90)		(1-34)	0		(1-90)	no_pfam
HG1015051	PLT00014333H15.contig.b	60	0	(1-60)			0		(1-60)	no_pfam
HG1015052	PLT00014333I18.contig.a	58	0.69	(22-58)	(34-58)	(12-33)	1	(7-29)	(1-6)(30-58)	no_pfam
HG1015053	PLT00014333I18.contig.b	50	0.77	(22-50)		(1-21)	0		(1-50)	no_pfam
HG1015054	PLT00014333I22.contig.a	70	0.08	(1-70)	(19-70)	(1-18)	0		(1-70)	no_pfam
HG1015055	PLT00014333I22.contig.b	54	0.96	(23-54)	(25-54)	(1-24)	1	(6-28)	(1-5)(29-54)	no_pfam
HG1015056	PLT00014333J01.contig.a	84	0.03	(1-84)	(35-84)	(19-34)	0		(1-84)	no_pfam
HG1015057	PLT00014333J01.contig.b	66	0.08	(32-66)	(33-66)	(1-32)	0		(1-66)	no_pfam
HG1015058	PLT00014333J13.contig.a	106	0.02	(1-106)			1	(46-68)	(1-45)(69-106)	no_pfam
HG1015059	PLT00014333J13.contig.b	93	0.06	(37-93)	(1-93)		0		(1-93)	no_pfam
HG1015060	PLT00014333J15.contig.a	63	0.12	(1-63)	(17-63)	(1-16)	0		(1-63)	no_pfam

FP ID	Clone ID	Pred Prot Len	Tree-vote	Mature Protein Coords	Altern Mature Protein Coords	Signal Peptide Coords	TM	TM Coords	Non-TM Coords	Pfam
HG1015061	PLT00014333J15.contig.b	62	0.18	(1-62)	(22-62)	(7-21)	1	(20-42)	(1-19)(43-62)	no_pfam
HG1015062	PLT00014333J17.contig.a	88	0	(1-88)	(36-88)	(16-35)	0		(1-88)	no_pfam
HG1015063	PLT00014333J23.contig.a	66	0.05	(1-66)	(16-66)	(1-15)	0		(1-66)	no_pfam
HG1015064	PLT00014333J23.contig.b	57	0.33	(1-57)	(31-57)	(14-30)	0		(1-57)	no_pfam
HG1015065	PLT00014333K04.contig.a	131	0.01	(1-131)			0		(1-131)	Gag_p24
HG1015066	PLT00014333K04.contig.b	125	0.14	(1-125)	(19-125)	(1-18)	0		(1-125)	integrase
HG1015067	PLT00014333K08.contig.a	69	0.19	(1-69)	(34-69)	(19-33)	1	(28-50)	(1-27)(51-69)	no_pfam
HG1015068	PLT00014333K08.contig.b	63	0.17	(21-63)		(1-20)	0		(1-63)	no_pfam
HG1015069	PLT00014333L13.contig.b	52	0	(1-52)			0		(1-52)	rnaseH
HG1015070	PLT00014333M01.contig.a	110	0.29	(1-110)	(20-110)	(1-19)	1	(86-108)	(1-85)(109-110)	no_pfam
HG1015071	PLT00014333M01.contig.b	68	0.01	(1-68)	(18-68)	(1-17)	1	(41-63)	(1-40)(64-68)	no_pfam
HG1015072	PLT00014333M02.contig.a	101	0.01	(38-101)	(43-101)	(12-42)	0		(1-101)	no_pfam
HG1015073	PLT00014333M02.contig.b	50	0	(1-50)	(14-50)	(1-13)	0		(1-50)	no_pfam
HG1015074	PLT00014333M07.contig.a	70	0.26	(37-70)	(30-70)	(4-29)	1	(13-35)	(1-12)(36-70)	no_pfam
HG1015075	PLT00014333M07.contig.b	58	0.62	(15-58)	(16-58)	(1-15)	0		(1-58)	no_pfam
HG1015076	PLT00014333M15.contig.a	80	0.04	(1-80)	(42-80)	(18-41)	0		(1-80)	no_pfam
HG1015077	PLT00014333M15.contig.b	54	0.08	(1-54)	(42-54)	(18-41)	0		(1-54)	no_pfam
HG1015078	PLT00014333N05.contig.a	73	0.1	(5-73)	(15-73)	(1-14)	0		(1-73)	no_pfam
HG1015079	PLT00014333N05.contig.b	70	0.45	(35-70)	(39-70)	(5-38)	0		(1-70)	no_pfam
HG1015080	PLT00014333N11.contig.a	95	0.01	(1-95)	(30-95)	(15-29)	0		(1-95)	no_pfam
HG1015081	PLT00014333N11.contig.b	69	0.03	(9-69)	(22-69)	(5-21)	0		(1-69)	no_pfam
HG1015082	PLT00014333O03.contig.a	72	0.21	(3-72)	(28-72)	(14-27)	0		(1-72)	no_pfam
HG1015083	PLT00014333O03.contig.b	55	0.01	(1-55)	(25-55)	(10-24)	0		(1-55)	no_pfam
HG1015084	PLT00014333O10.contig.a	55	0.06	(4-55)	(15-55)	(1-14)	0		(1-55)	no_pfam
HG1015085	PLT00014333O17.contig.a	71	0.11	(1-71)	(20-71)	(1-19)	0		(1-71)	no_pfam

FP ID	Clone ID	Pred Prot Len	Tree-vote	Mature Protein Coords	Altern Mature Protein Coords	Signal Peptide Coords	TM	TM Coords	Non-TM Coords	Pfam
HG1015086	PLT00014333E15.contig.a	92	0.49	(20-92)		(1-19)	1	(5-27)	(1-4)(28-92)	no_pfam
HG1015087	PLT00014333E15.contig.b	78	0.01	(1-78)			1	(52-71)	(1-51)(72-78)	no_pfam
HG1015088	PLT00014333G09.contig.a	125	0	(1-125)			0		(1-125)	no_pfam
HG1015089	PLT00014333G09.contig.b	63	0.11	(1-63)	(41-63)	(18-40)	0		(1-63)	no_pfam

Table 3. Similarity to Known Sequences

FP ID	Clone ID	Top Hit Accession ID	Top Hit Annotation	Top Hit % ID	Top Human Hit Accession ID	Top Human Hit Annotation	Top Human Hit % ID
HG1014903	PLT00014330A02.contig.a	gi|34529187|dbj|BAC85656.1|	unnamed protein product [Homo sapiens]	59	gi|34529187|dbj|BAC85656.1|	unnamed protein product [Homo sapiens]	59
HG1014910	PLT00014330B02.contig.b	gi|7770237|gb|AAF69654.1|	PRO2822 [Homo sapiens]	76	gi|7770237|gb|AAF69654.1|	PRO2822 [Homo sapiens]	76
HG1014914	PLT00014330B11.contig.a	gi|38085361|ref|XP_355822.1|	similar to RIKEN cDNA 6330419J24 gene [Mus musculus]	80		no_human_hit	
HG1014933	PLT00014330D12.contig.b	gi|8923214|ref|NP_060190.1|	signal-transducing adaptor protein-2; brk kinase substrate [Homo sapiens] gi|7020193|dbj|BAA91028.1| unnamed protein product [Homo sapiens]	57	gi|8923214|ref|NP_060190.1|	signal-transducing adaptor protein-2; brk kinase substrate [Homo sapiens] gi|7020193|dbj|BAA91028.1| unnamed protein product [Homo sapiens]	57
HG1014948	PLT00014330F05.contig.a	gi|34534372|dbj|BAC86987.1|	unnamed protein product [Homo sapiens]	56	gi|34534372|dbj|BAC86987.1|	unnamed protein product [Homo sapiens]	56
HG1014952	PLT00014330H05.contig.b	gi|2981631|dbj|BAA25253.1|	ORF2 [Canis familiaris]	58	no_human_hit		

FP ID	Clone ID	Top Hit Accession ID	Top Hit Annotation	Top Hit % ID	Top Human Hit Accession ID	Top Human Hit Annotation	Top Human Hit % ID
HG1014958	PLT00014330H18.contig.a	gi|13310191|gb|AAK18189.1|	recombinant envelope protein [multiple sclerosis associated retrovirus element]	52	no_human_hit		
HG1014971	PLT00014330J21.contig.b	gi|23503335|ref|NP_694983.1|	hypothetical protein FLJ25952 [Homo sapiens] gi|21758947|dbj|BAC05422.1| unnamed protein product [Homo sapiens]	64	gi|23503335|ref|NP_694983.1|	hypothetical protein FLJ25952 [Homo sapiens] gi|21758947|dbj|BAC05422.1| unnamed protein product [Homo sapiens]	64
HG1014975	PLT00014330K09.contig.a	gi|34528691|dbj|BAC85556.1|	unnamed protein product [Homo sapiens]	56	gi|34528691|dbj|BAC85556.1|	unnamed protein product [Homo sapiens]	56
HG1014977	PLT00014330K15.contig.a	gi|34533624|dbj|BAC86755.1|	unnamed protein product [Homo sapiens]	81	gi|34533624|dbj|BAC86755.1|	unnamed protein product [Homo sapiens]	81
HG1014983	PLT00014330M08.contig.a	gi|21754422|dbj|BAC04501.1|	unnamed protein product [Homo sapiens]	55	gi|21754422|dbj|BAC04501.1|	unnamed protein product [Homo sapiens]	55
HG1014992	PLT00014330N13.contig.a	gi|37182643|gb|AAQ89122.1|	DRDL5813 [Homo sapiens]	56	gi|37182643|gb|AAQ89122.1|	DRDL5813 [Homo sapiens]	56
HG1015030	PLT00014333C21.contig.b	gi|18027736|gb|AAL55829.1|	unknown [Homo sapiens]	87	gi|18027736|gb|AAL55829.1|	unknown [Homo sapiens]	87

FP ID	Clone ID	Top Hit Accession ID	Top Hit Annotation	Top Hit % ID	Top Human Hit Accession ID	Top Human Hit Annotation	Top Human Hit % ID
HG1015044	PLT00014333E24.contig.b	gi|1698455|gb|AAC52011.1|	mariner transposase [Homo sapiens]	79	gi|1698455|gb|AAC52011.1|	mariner transposase [Homo sapiens]	79
HG1015082	PLT00014333O03.contig.a	gi|21754422|dbj|BAC04501.1|	unnamed protein product [Homo sapiens]	75	gi|21754422|dbj|BAC04501.1|	unnamed protein product [Homo sapiens]	75

Table 4 Structural Characteristics and Tissue Source

FP ID	Clone ID	Tissue Source	Pred Prot Len	Tree-vote	Signal Peptide Coords	Mature Protein Coords	Altern Signal Peptide Coords	Altern Mature Protein Coords	TM	TM Coords	Non-TM Coords
HG1014905	CLN00082984	Muscle, Muscle Pool	82	0.55		(1-82)	(14-26)	(27-82)	1	(15-37)	(1-14)(38-82)
HG1014906	CLN00082984	Muscle, Muscle Pool	61	0.62	(6-23)	(24-61)	(11-23)	(24-61)	2	(5-27)(31-53)	(1-4)(28-30)(54-61)
HG1014917	CLN00142812	Colon	74	0.7	(2-21)	(22-74)	(9-21)	(22-74)	0		(1-74)
HG1014918	CLN00142812	Colon	53	0.24		(1-53)	(15-27)	(28-53)	0		(1-53)
HG1014919	CLN00077158	Intestine, Pancreas,Pancreas Pool, Stomach, Stomach pool, Trachea, Trachea pool	101	0.53	(21-45)	(46-101)			0		(1-101)
HG1014925	CLN00059368	Kidney	132	0.81	(1-19)	(20-132)			0		(1-132)
HG1014926	CLN00059368	Kidney	74	0.43	(15-36)	(37-74)			2	(12-31)(46-68)	(1-11)(32-45)(69-74)
HG1014930	CLN00156143	Testis, Testis Pool	79	0.61	(6-29)	(30-79)	(16-28)	(29-79)	0		(1-79)
HG1014931	CLN00156143	Testis, Testis Pool	73	0.87	(1-19)	(20-73)	(9-21)	(22-73)	0		(1-73)
HG1014932	CLN00062536	Kidney	116	0.01		(1-116)			1	(21-43)	(1-20)(44-116)
HG1014936	CLN00163455	Prostate, Prostate Pool	89	0.4	(22-35)	(36-89)	(9-21) (23-35)	(22-89) (36-89)	1	(12-34)	(1-11)(35-89)
HG1014937	CLN00139538	Breast	96	0.26	(10-26)	(27-96)	(17-29)	(30-96)	0		(1-96)
HG1014942	CLN00051182	Bladder, Brain, Brain Pool, Lung, Lung Pool, Spleen, Spleen Pool, Thymus, Thymus pool	62	0.16		(1-62)			1	(15-34)	(1-14)(35-62)
HG1014943	CLN00018119	Intestine, Pancreas, Pancreas Pool, Stomach, Stomach pool, Trachea, Trachea pool	77	0		(1-77)			1	(28-45)	(1-27)(46-77)

FP ID	Clone ID	Tissue Source	Pred Prot Len	Tree-vote	Signal Peptide Coords	Mature Protein Coords	Altern Signal Peptide Coords	Altern Mature Protein Coords	TM	TM Coords	Non-TM Coords
HG1014946	CLN00156600	Testis, Testis Pool	117	0.9	(1-19)	(20-117)	(5-17)	(18-117)	0		(1-117)
HG1014949	CLN00010970	Bone Marrow, Bone Marrow Pool, Liver	53	0.26	(1-27)	(28-53)	(15-27)	(28-53)	0		(1-53)
HG1014951	CLN00148049	Cord Blood, Cord Blood Pool, Placenta, Placenta Pool	53	0.05		(1-53)			1	(20-42)	(1-19)(43-53)
HG1014954	CLN00118656	Bladder, Brain, Brain Pool, Lung, Lung Pool, Spleen, Spleen Pool, Thymus, Thymus pool	86	0.65	(1-18)	(19-86)			0		(1-86)
HG1014957	CLN00185900	Breast	66	0.05		(1-66)	(16-28)	(29-66)	1	(43-62)	(1-42)(63-66)
HG1014958	CLN00185984	Breast	95	0.94	(1-18)	(19-95)	(8-20)	(21-95)	0		(1-95)
HG1014960	CLN00020358	Intestine, Pancreas, Pancreas Pool, Stomach, Stomach pool, Trachea, Trachea pool	62	0.05		(1-62)			1	(31-53)	(1-30)(54-62)
HG1014962	CLN00149057	Breast	66	0.51	(1-15)	(16-66)	(8-14) (2-8) (1-7)	(15-66) (9-66) (8-66)	2	(4-26)(43-65)	(1-3)(27-42)(66-66)
HG1014973	CLN00051702	no tissue source found	99	0.16		(1-99)			1	(73-95)	(1-72)(96-99)
HG1014974	CLN00051702	no tissue source found	50	0.26		(1-50)			2	(5-27)(32-49)	(1-4)(28-31)(50-50)
HG1014975	CLN00041527	Adrenal Gland, Adrenal Gland Pool	100	0.09		(1-100)	(7-19)	(20-100)	0		(1-100)
HG1014979	CLN00109327	Liver	51	0.17		(1-51)			1	(13-35)	(1-12)(36-51)
HG1014983	CLN00054904	Bladder, Brain, Brain Pool, Lung, Lung Pool, Spleen, Spleen Pool,	72	0.46	(18-31)	(32-72)	(21-33) (19-31)	(34-72) (32-72)	1	(45-67)	(1-44)(68-72)

FP ID	Clone ID	Tissue Source	Pred Prot Len	Tree-vote	Signal Peptide Coords	Mature Protein Coords	Altern Signal Peptide Coords	Altern Mature Protein Coords	TM	TM Coords	Non-TM Coords
		Thymus, Thymus pool									
HG1014984	CLN00054904	Bladder, Brain, Brain Pool, Lung, Lung Pool, Spleen, Spleen Pool, Thymus, Thymus pool	52	0.29		(1-52)	(18-30)	(31-52)	1	(20-42)	(1-19)(43-52)
HG1014987	CLN00138883	Intestine, Pancreas, Pancreas Pool, Stomach, Stomach pool, Trachea, Trachea pool	82	0.45	(16-29)	(30-82)	(16-28)	(29-82)	0		(1-82)
HG1014988	CLN00113699	Bladder, Brain, Brain Pool, Lung, Lung Pool, Spleen, Spleen Pool, Thymus, Thymus pool	75	0.15	(23-40)	(41-75)			1	(20-42)	(1-19)(43-75)
HG1014992	CLN00155027	Testis, Testis Pool	83	0.87	(1-19)	(20-83)	(10-22)	(23-83)	1	(4-26)	(1-3)(27-83)
HG1014993	CLN00155027	Testis, Testis Pool	55	0.29		(1-55)			1	(10-32)	(1-9)(33-55)
HG1014996	CLN00042242	Muscle, Muscle Pool	70	0.32	(5-18)	(19-70)			1	(7-29)	(1-6)(30-70)
HG1015004	CLN00116255	Bladder, Brain, Brain Pool, Lung, Lung Pool, Spleen, Spleen Pool, Thymus, Thymus pool	50	0.17	(23-37)	(38-50)	(21-33) (25-37)	(34-50) (38-50)	0		(1-50)
HG1015007	CLN00200943	Prostate, Prostate Pool	83	0.08		(1-83)			1	(15-37)	(1-14)(38-83)
HG1015010	CLN00123672	Intestine, Pancreas, Pancreas Pool, Stomach, Stomach pool, Trachea, Trachea pool	66	0.13		(1-66)	(22-34)	(35-66)	0		(1-66)
HG1015013	CLN00197177	Prostate Pool, Prostate	67	0.8	(17-34)	(35-67)			0		(1-67)
HG1015015	CLN00195394	Lung, Lung Pool	50	0.46	(16-40)	(41-50)	(25-37) (12-24)	(38-50) (25-50)	0		(1-50)
HG1015018	CLN00191228	Lung, Lung Pool	55	0.05		(1-55)			1	(29-51)	(1-28)(52-

FP ID	Clone ID	Tissue Source	Pred Prot Len	Tree-vote	Signal Peptide Coords	Mature Protein Coords	Altern Signal Peptide Coords	Altern Mature Protein Coords	TM	TM Coords	Non-TM Coords
											55)
HG1015019	CLN00191228	Lung, Lung Pool	53	0.49	(23-46)	(47-53)			0		(1-53)
HG1015022	CLN00192344	Lung, Lung Pool	65	0.01		(1-65)			1	(42-64)	(1-41)(65-65)
HG1015024	CLN00236321	Tonsil, Tonsil pool	51	0.77		(1-51)	(9-21)	(22-51)	1	(12-34)	(1-11)(35-51)
HG1015031	CLN00041415	Adrenal Gland, Adrenal Gland Pool	94	0.11		(1-94)			1	(10-32)	(1-9)(33-94)
HG1015032	CLN00041415	Adrenal Gland, Adrenal Gland Pool	88	0		(1-88)			2	(34-56)(61-78)	(1-33)(57-60)(79-88)
HG1015036	CLN00081508	Muscle Pool, Muscle	62	0.29		(1-62)			2	(13-32)(42-61)	(1-12)(33-41)(62-62)
HG1015037	CLN00114957	Bladder, Brain, Brain Pool, Lung, Lung Pool, Spleen, Spleen Pool, Thymus, Thymus pool	73	0		(1-73)			1	(26-48)	(1-25)(49-73)
HG1015038	CLN00114957	Bladder, Brain, Brain Pool, Lung, Lung Pool, Spleen, Spleen Pool, Thymus, Thymus pool	67	0.51	(8-25)	(26-67)			1	(10-32)	(1-9)(33-67)
HG1015047	CLN00123946	Intestine, Pancreas, Pancreas Pool, Stomach, Stomach pool, Trachea, Trachea pool	77	0.03		(1-77)	(6-18)	(19-77)	0		(1-77)
HG1015050	CLN00024579	Bone Marrow, Bone Marrow Pool, Liver	90	0.23	(1-34)	(35-90)	(24-36) (22-34)	(37-90) (35-90)	0		(1-90)
HG1015052	CLN00195792	Lung, Lung Pool	58	0.69	(12-33)	(34-58)	(5-17) (14-26) (9-21)	(18-58) (27-58) (22-58)	1	(7-29)	(1-6)(30-58)
HG1015053	CLN00195792	Lung, Lung Pool	50	0.77	(1-21)	(22-50)	(9-21)	(22-50)	0		(1-50)
HG1015055	CLN00199902	Prostate, Prostate Pool	54	0.96	(1-24)	(25-54)	(10-22)	(23-54)	1	(6-28)	(1-5)(29-54)

FP ID	Clone ID	Tissue Source	Pred Prot Len	Tree-vote	Signal Peptide Coords	Mature Protein Coords	Altern Signal Peptide Coords	Altern Mature Protein Coords	TM	TM Coords	Non-TM Coords
HG1015058	CLN00023292	Bone Marrow, Bone Marrow Pool, Liver	106	0.02		(1-106)			1	(46-68)	(1-45)(69-106)
HG1015061	CLN00168841	Tonsil, Tonsil pool	62	0.18		(1-62)			1	(20-42)	(1-19)(43-62)
HG1015067	CLN00197776	Prostate, Prostate Pool	69	0.19		(1-69)			1	(28-50)	(1-27)(51-69)
HG1015068	CLN00197776	Prostate, Prostate Pool	63	0.17		(1-63)	(8-20)	(21-63)	0		(1-63)
HG1015070	CLN00198831	Prostate, Prostate Pool	110	0.29	(1-19)	(20-110)			1	(86-108)	(1-85)(109-110)
HG1015071	CLN00198831	Prostate, Prostate Pool	68	0.01		(1-68)			1	(41-63)	(1-40)(64-68)
HG1015074	CLN00202085	Colon	70	0.26	(22-36)	(37-70)	(24-36)	(37-70)	1	(13-35)	(1-12)(36-70)
HG1015075	CLN00202085	Colon	58	0.62	(1-15)	(16-58)			0		(1-58)
HG1015079	CLN00243977	Tonsil, Tonsil pool	70	0.45	(5-38)	(39-70)			0		(1-70)
HG1015086	CLN00226626	Skin, Skin Pool	92	0.49		(1-92)			1	(5-27)	(1-4)(28-92)
HG1015087	CLN00226626	Skin, Skin Pool	78	0.01		(1-78)			1	(52-71)	(1-51)(72-78)

Table 5. Subclone Identification and Similarity to Known Sequences

FP ID	Clone ID	Pred Prot Len	Tree-vote	TM	Top Hit Annotation	Top Hit Len	Top Hit Len # AA Mat	% ID Mat (QL)	% ID Mat (HL)	Top Hum Hit Annotation	Top Hum Hit Len	Top Hum Hit Len # AA Mat	% ID Mat (QL)	% ID Mat (HL)	Sub-clone Type	Sub-clone ID
HG1014905	CLN00082984	82	0.55	1	unnamed protein product [Mus musculus]	161	42	51%	26%	unnamed protein product [Homo sapiens]	177	38	46%	21%	pTT5	CLN00736344
HG1014906	CLN00082984	61	0.62	2	unnamed protein product [Homo sapiens]	198	23	38%	12%	unnamed protein product [Homo sapiens]	198	23	38%	12%	pTT5	CLN00736344
HG1014917	CLN00142812	74	0.7	0											pTT5	CLN00736494
HG1014919	CLN00077158	101	0.53	0	unnamed protein product [Homo sapiens]	161	49	49%	30%	unnamed protein product [Homo sapiens]	161	49	49%	30%		
HG1014925	CLN00059368	132	0.81	0											pTT5	CLN00736483
HG1014926	CLN00059368	74	0.43	2	Legionella vir homologue protein [Legionella pneumophila str. Lens]	633	23	31%	4%						pTT5	CLN00736483

HG1014930	CLN00156143	79	0.61	0	elongation protein 4 homolog [Homo sapiens]	535	42	53%	8%	elongation protein 4 homolog [Homo sapiens]	535	42	53%	8%	pTT5	CLN00736320
HG1014931	CLN00156143	73	0.87	0											pTT5	CLN00736320
HG1014932	CLN00062536	116	0.01	1	PRO0898 [Homo sapiens]	111	45	39%	41%	PRO0898 [Homo sapiens]	111	45	39%	41%	pTT5	CLN00736408
HG1014942	CLN00051182	62	0.16	1	Unknown (protein for IMAGE:7122468) [Rattus norvegicus]	591	24	39%	4%							
HG1014946	CLN00156600	117	0.9	0	HERV-R_7q21.2 provirus ancestral Env polyprotein precursor (Envelope polyprotein) (ERV3 envelope protein) (ERV-3 envelope protein) (HERV-R envelope protein) (ERV-R envelope	604	75	64%	12%	HERV-R_7q21.2 provirus ancestral Env polyprotein precursor (Envelope polyprotein) (ERV3 envelope protein) (ERV-3 envelope protein) (HERV-R envelope protein) (ERV-R envelope	604	75	64%	12%	pTT5	CLN00736568

					protein) [Contains: Surface protein (SU); Transmembrane protein (TM)]					protein) [Contains: Surface protein (SU); Transmembrane protein (TM)]						
HG1014949	CLN00010970	53	0.26	0	KIAA1822 protein [Homo sapiens]	533	25	47%	5%	KIAA1822 protein [Homo sapiens]	533	25	47%	5%		
HG1014951	CLN00148049	53	0.05	1	unnamed protein product [Mus musculus]	141	16	30%	11%							
HG1014954	CLN00118656	86	0.65	0	OSJNBa0016O02.7 [Oryza sativa (japonica cultivar-group)] gi|38606520|emb|CAE05997.2| OSJNBa0016O02.7 [Oryza sativa (japonica cultivar-group)]	484	33	38%	7%						pTT5	CLN00736486
HG1014958	CLN00185984	95	0.94	0	recombinant envelope	542	54	57%	10%						pTT5	CLN00736439

					protein [multiple sclerosis associated retrovirus element]											
HG1014960	CLN00020358	62	0.05	1	hypothetical protein hc1 - mouse (fragment) gi|1333929|emb|CAA46991.1| unnamed protein product [Mus musculus]	118	21	34%	18%							
HG1014962	CLN00149057	66	0.51	2	PREDICTED: similar to MGC68847 protein [Gallus gallus]	1667	20	30%	1%							
HG1014973	CLN00051702	99	0.16	1	unnamed protein product [Homo sapiens] gi|34531176|dbj|BAC86070.1| unnamed protein product [Homo	124	36	36%	29%	unnamed protein product [Homo sapiens]	124	36	36%	29%		

					sapiens]											
HG101 4974	CLN00 051702	50	0.26	2	ORF MSV222 hypothetical protein [Melanoplus sanguinipes entomopoxv irus] gi|11362396| pir||T28383 ORF MSV222 hypothetical protein - Melanoplus sanguinipes entomopoxv irus gi|9631394|r ef|NP_0482 93.1| ORF MSV222 hypothetical protein [Melanoplus sanguinipes entomopoxv irus]	157	19	38%	12%							
HG101 4975	CLN00 041527	100	0.09	0	PREDICTE D: similar to FLJ44076 protein [Homo sapiens]	178	56	56%	31%	PREDICTE D: similar to FLJ44076 protein [Homo sapiens]	178	56	56%	31%	pTT5	CLN00 736375
HG101	CLN00	51	0.17	1	NADH	306	19	37%	6%							

4979	109327				dehydrogenase subunit 5 [Luciola lateralis]											
HG1014983	CLN00054904	72	0.46	1	unnamed protein product [Homo sapiens]	129	41	57%	32%	unnamed protein product [Homo sapiens]	129	41	57%	32%		
HG1014984	CLN00054904	52	0.29	1	hypothetical protein MYPE2715 [Mycoplasma penetrans HF-2] gi|26453732|dbj|BAC44063.1| unknown [Mycoplasma penetrans HF-2]	59	16	31%	27%							
HG1014987	CLN00138883	82	0.45	0											pTT5	CLN00736332
HG1014988	CLN00113699	75	0.15	1	KIAA1657 protein [Homo sapiens]	127	26	35%	20%	KIAA1657 protein [Homo sapiens]	127	26	35%	20%		
HG1014992	CLN00155027	83	0.87	1	DRDL5813 [Homo sapiens]	653	49	59%	8%	DRDL5813 [Homo sapiens]	653	49	59%	8%	pTT5	CLN00736512
HG1014993	CLN00155027	55	0.29	1	PRO2532 [Homo sapiens]	71	18	33%	25%	PRO2532 [Homo sapiens]	71	18	33%	25%	pTT5	CLN00736512
HG1014996	CLN00042242	70	0.32	1	protein with R3H and G-	695	23	33%	3%						pTT5	CLN00736478

					patch domain [Schizosaccharomyces pombe] gi|3417428|emb|CAA20315.1| SPBC30B4.02c [Schizosaccharomyces pombe] gi|7491581|pir||T40168 hypothetical protein SPBC30B4.02c - fission yeast (Schizosaccharomyces pombe)											
HG101 5007	CLN00 200943	83	0.08	1										pTT5	CLN00 736321
HG101 5013	CLN00 197177	67	0.8	0	1-aminocyclopropane-1-carboxylate synthase [Lycopersicon esculentum]	227	21	31%	9%					pTT5	CLN00 736625
HG101 5018	CLN00 191228	55	0.05	1	PREDICTED: hypothetical	105	29	53%	28%	PREDICTED: hypothetical	105	29	53%	28%		

					protein XP_499005 [Homo sapiens]					protein XP_499005 [Homo sapiens]						
HG1015022	CLN00192344	65	0.01	1											pTT5	CLN00736440
HG1015031	CLN00041415	94	0.11	1	unnamed protein product [Homo sapiens]	291	40	43%	14%	unnamed protein product [Homo sapiens]	291	40	43%	14%		
HG1015032	CLN00041415	88	0	2	unknown [Homo sapiens]	400	41	47%	10%	unknown [Homo sapiens]	400	41	47%	10%		
HG1015036	CLN00081508	62	0.29	2											pTT5	CLN00736385
HG1015037	CLN00114957	73	0	1											pTT5	CLN00736561
HG1015038	CLN00114957	67	0.51	1	unnamed protein product [Homo sapiens]	128	34	51%	27%	unnamed protein product [Homo sapiens]	128	34	51%	27%	pTT5	CLN00736561
HG1015050	CLN00024579	90	0.23	0	COG0531: Amino acid transporters [Methanococcoides burtonii DSM 6242]	456	33	37%	7%							
HG1015052	CLN00195792	58	0.69	1	PREDICTED: similar to SCO-spondin [Pan troglodytes]	6126	21	36%	0%							

HG101 5067	CLN00 197776	69	0.19	1	olfactory receptor Olr1334 [Rattus norvegicus]	311	22	32%	7%						p-Donor	CLN00 625950 CLN00 625952 CLN00 625956 CLN00 625984 CLN00 625986 CLN00 626567 CLN00 626569 CLN00 626571 CLN00 626573
HG101 5068	CLN00 197776	63	0.17	0	unnamed protein product [Homo sapiens]	138	34	54%	25%	unnamed protein product [Homo sapiens]	138	34	54%	25%	pDonor	CLN00 625950 CLN00 625952 CLN00 625956 CLN00 625984 CLN00 625986 CLN00 626567 CLN00 626569 CLN00 626571 CLN00 626573

HG101 5071	CLN00 198831	68	0.01	1	hypothetical protein [Plasmodium yoelii yoelii]	508	25	37%	5%							
HG101 5074	CLN00 202085	70	0.26	1											pTT5	CLN00 736352
HG101 5075	CLN00 202085	58	0.62	0											pTT5	CLN00 736352
HG101 5079	CLN00 243977	70	0.45	0	septin-like protein [Rattus norvegicus] gi|25486149|pir||JC7365 septin-like protein-a - rat gi|6090881|gb|AAF03376.1| septin-like protein [Rattus norvegicus]	564	24	34%	4%							
HG101 5086	CLN00 226626	92	0.49	1	unnamed protein product [Homo sapiens]	350	46	50%	13%	unnamed protein product [Homo sapiens]	350	46	50%	13%		